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06 20  
W-8000 München 86(DE)(54) **Oil based synthetic hydrocarbon drilling fluid.**

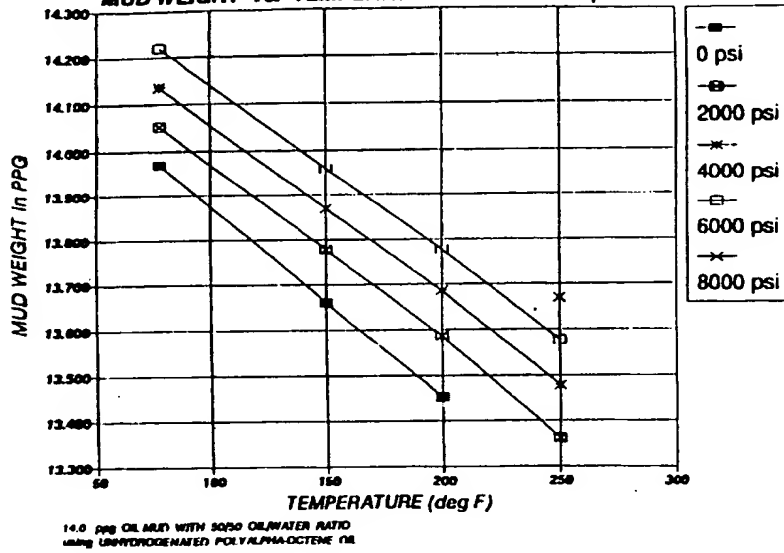
(57) The present invention relates to an improved continuous phase for an oil based drilling fluid and specifically a synthetic hydrocarbon continuous phase which is non-polluting and minimally toxic. The invention provides excellent drilling fluid properties under a wide variety of drilling conditions. The synthetic hydrocarbons are selected from the group consisting of branched chain oligomers synthesized

from one or more olefins containing a C<sub>2</sub> to C<sub>14</sub> chain length and wherein the oligomers have an average molecular weight of from 120 to 1000. In the drilling fluid compositions, suitable emulsifiers, wetting agents, viscosifiers, weight materials and fluid loss additives are utilized in conjunction with water and/or a brine phase for the desired rheological properties.

**EP 0 449 257 A3**

**FIGURE 1**

HUXLEY - BERTRAM HTHP VISCOMETER DATA  
MUD WEIGHT vs. TEMPERATURE at indicated pressures





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## EUROPEAN SEARCH REPORT

Application Number

EP 91 10 4884

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	EP-A-0 325 466 (COASTAL MUD)	1, 5-7, 10	C09K7/06
Y	* page 3, line 16 - line 52 *	1, 8, 9	
	* page 6, line 1 - line 15 *		
Y	EP-A-0 108 546 (HALLIBURTON)	1, 8, 9	
	* page 4, line 33 - page 5, line 15 *		
	* page 5, line 34 - page 7, line 22 *		
	* claims 1-4, 6, 10 *		
Y	US-A-4 587 368 (R.E. PRATT)	1, 10, 11, 12	
	* claims 1-7 *		
Y	US-A-4 282 392 (B.L. CUPPLES)	1, 10, 11, 12	
	* column 1, line 41 - line 68 *		
	* column 2, line 41 - line 44 *		
	* column 4, line 48 - line 68 *		
	* table I *		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			C09K
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13 JULY 1992	Examiner BOULON A. F. J.
<b>CATEGORY OF CITED DOCUMENTS</b>			
X : particularly relevant if taken alone		T : theory or principle underlying the invention	
Y : particularly relevant if combined with another document of the same category		E : earlier patent document, but published on, or after the filing date	
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P : intermediate document		A : member of the same patent family, corresponding document	